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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,296	11/03/2003	Allen Chang	IS/ 057 CONT.	5262

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Alexander Shvarts  
Fish & Neave  
1251 Avenue of the Americas  
New York, NY 10020-1105

EXAMINER

TRAN, TRANG U

ART UNIT	PAPER NUMBER
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2622

DATE MAILED: 07/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/701,296	CHANG, ALLEN	
	<b>Examiner</b>	<b>Art Unit</b>	
	Trang U. Tran	2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |  |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>11/3/2003</u> . | 6) <input type="checkbox"/> Other: ____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 9-11 and 13-15 are rejected under 35 U.S.C. 102(e) as being anticipate by Nelson (US Patent No. 5,710,605).

In consider claim 9, Nelson discloses all the claimed subject matter, note 1) the claimed a display screen displaying a television program guide containing a schedule of television programs is met by the display circuit 20 which is used for displaying television programming schedule items 14 and conventional television and videocassette operating functions such as ON/OFF, FAST FORWARD, PLAY, RECORD, etc (Figs. 1 and 6, col. 5, lines 14-45), 2) the claimed a receiver receiving transmitted data representing a program guide is met by the infrared receiver and transmitter circuit 120 (Fig. 6, col. 6, line 65 to col. 7, line 13), 3) the claimed a memory for storing the received program guide data is met by the memory circuitry which is formed of conventional read-only memory 100 and random access memory 104 (Fig. 6, col. 6, lines 46-52), 4) the claimed user input means for inputting user commands is met by the keypad 30 for allowing a user manual control of the television, the videocassette

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recorder, and even a household satellite receiving dish (Figs. 1 and 6, col. 5, line 47 to col. 6, line 46), 5) the claimed microcontroller configured to select one of the television programs on the display screen in response to a first user command, wherein the microcontroller determines whether the automatically tunes the television tuner to the selected television program in response to the first user command if the selected television program is currently being broadcast, and wherein the microcontroller is further configured to automatically program an associated VCR to record the selected television program in response to the first user command if the selected television program is scheduled to be broadcast in future is met by the standard microprocessor 100 which generates a television programming signal when a television programming data item is selected through the keypad and further generates function control signals that can control a television, a videocassette recorder, or combination thereof when a television or videocassette function is selected through the keypad (Figs. 5-6, col. 5, line 28 to col. 8, line 7), 6) the claimed a transmitter coupled to the microcontroller for transmitting signals that tunes the television tuner or program the associated VCR is met by the universal asynchronous receiver transmitter (UART)112 (Fig. 6, col. 6, lines 54 to col. 7, line 35), and 7) the claimed wherein the microcontroller is configured to transmit the program guide data to the television tuner through the transmitter is met by the standard microprocessor 100 which generates function control signals that can control a television, a videocassette recorder, or combination thereof when a television or videocassette function is selected through the keypad (Figs. 5-6, col. 5, line 28 to col. 8, line 7).

In consider claim 10, the claimed wherein the television program guide includes the title of the television program is met by the display circuit 20 which is used for displaying television programming schedule items 14, such items include the name of the television program, its start and stop time, and other ancillary information such as a brief description of the television program (Figs. 1 and 6, col. 5, lines 14-45).

In consider claim 11, the claimed wherein the microcontroller further comprises a digital signal processor for sorting the program guide data and storing the program guide data in the memory is met by the standard microprocessor 100 (Fig. 6, col. 6, lines 47-64).

In consider claim 13, the claimed further comprising means for storing in the memory data representing textual information relating to the television tuner, and wherein the microcontroller is further configured to display textual information corresponding to a television tuner in response to a second user command is met by the standard microprocessor 100 (Fig. 6, col. 6, lines 47-64 and col. 7, lines 29-63).

In consider claim 14, the claimed wherein the selected program listing is a current television program, and the microcontroller tunes the television to the channel carrying that program in response to the user command is met by the first set of keys which is allow a user to scroll through the lists and then select one of the television programming schedule items 14 (col. 5, line 46 to col. 6, line 46).

In consider claim 15, the claimed wherein the selected program listing is a future television program, and the microcontroller sets the television tuner to record the future program in response to the user command is met by the NEXT BUTTON 44 which is

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used to see what program will be shown on at a future data and the second set of keys allows a user to scroll through the lists and then select one of the television and video cassette function such as RECORD BUTTON (col. 5, line 46 to col. 6, line 46).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3, 5-8 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson (US Patent No. 5,710,605) in view of Goldstein (US Patent No. 5,410,326).

In consider claim 1, Nelson discloses all the claimed subject matter, note 1) the claimed a display screen is met by the display circuit 20 which is used for displaying television programming schedule items 14 and conventional television and videocassette operating functions such as ON/OFF, FAST FORWARD, PLAY, RECORD, etc (Figs. 1 and 6, col. 5, lines 14-45), 2) the claimed a receiver for receiving transmitted data representing a program guide containing a schedule of program listings wherein the listings include a plurality of program tiles, the transmitted data further including voice data corresponding to the schedule of program listings in the program guide is met by the infrared receiver and transmitter circuit 120 (Fig. 6, col. 6, line 65 to col. 7, line 13), 3) the claimed a memory for storing the received program guide data is

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met by the memory circuitry which is formed of conventional read-only memory 100 and random access memory 104 (Fig. 6, col. 6, lines 46-52), 4) the claimed user input means for inputting user commands is met by the keypad 30 for allowing a user manual control of the television, the videocassette recorder, and even a household satellite receiving dish (Figs. 1 and 6, col. 5, line 47 to col. 6, line 46), 5) the claimed microcontroller configured to retrieve a portion of the program guide data, including a portion of the schedule of program listings, from the memory in response to a first user command and display the selected portion of the program guide on the display screen is met by the standard microprocessor 100 (Fig. 6, col. 6, lines 54-64), and 6) the claimed a transmitter for transmitting signals to a selected one of the plurality of apparatus is met by the universal asynchronous receiver transmitter (UART)112 (Fig. 6, col. 6, lines 54-64).

However, Nelson explicitly does not disclose the claimed wherein the microcontroller is further configured to retrieve from the memory that portion of the voice data that corresponds to the retrieved portion of the schedule of program listings in the program guide displayed on the display screen, convert the voice data to voice messages and output the voice messages through a speaker.

Goldstein teaches that wherein it is disclosed that video menus for display on the TV receiver may be transferred as embedded data on the telephone interface 25, which includes an audio message which is broadcast over the internal speaker 39 of the remote control device (col. 8, lines 15-33).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate an audio messages which is broadcast over the internal speaker 39 of the remote control device as taught by Goldstein into Nelson's system in order to provide for a universal programmable remote control device which may be used by a consumer for controlling a variety of consumer products.

Claim 2 is rejected for the same reason as discussed in claim 1 and further the claimed a source of data representing a program guide containing a schedule of program listings wherein the listings include a plurality of program titles; a system transmitter for transmitting the program guide data; a plurality of apparatus at a user site is met by the satellite television system or the cable television broadcast system (col. 5, lines 1-27 of Nelson).

In consider claim 3, the claimed wherein the system transmitter is a pager carrier system and the receiver is a pager receiver is met by the modem receivers a plurality of electrical signals over the telephone line from an external supplier (Fig. 6, col. 5, lines 14-27 of Nelson).

In consider claim 5, the claimed wherein the microcontroller is further configured to scroll the display on the display screen through different portions of the program guide in response to a second user command is met by the first set of keys which is allow a user to scroll through the lists and then select one of the television programming schedule items 14 (col. 5, line 46 to col. 6, line 46 of Nelson).

Claim 6 is rejected for the same reason as discussed in claim 1, and further the claimed selecting a second portion of the program guide in response to a user



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command; retrieving the second portion of the program guide from the memory; and displaying the second portion of the program guide on the display screen is met by is met by the first set of keys which is allow a user to scroll through the lists and then select one of the television programming schedule items 14 and the NEXT BUTTON 44 which is used to see what program will be shown on at a future data, the RIGHT ARROW KEY 58 which moves the cursor to the right, an UP ARROW KEY 60 which moves the cursor up on the display and the DOWN ARROW KEY 62 which moves the cursor down on the display (col. 5, line 46 to col. 6, line 46 of Nelson).

In consider claim 7, the claimed wherein the second portion of the program guide consists currently broadcast programs is met by an UP ARROW KEY 60 which moves the cursor up on the display and the DOWN ARROW KEY 62 which moves the cursor down on the display (col. 5, line 46 to col. 6, line 46 of Nelson).

In consider claim 8, the claimed wherein the second portion of the program guide consists of programs broadcast on the currently selected channel is met by an UP ARROW KEY 60 which moves the cursor up on the display and the DOWN ARROW KEY 62 which moves the cursor down on the display (col. 5, line 46 to col. 6, line 46 of Nelson).

In considering claim 12, Nelson discloses all the claimed subject matter, note 1) the claimed further comprising a speaker, wherein the transmitted program guide data includes voice data corresponding to the program guide is met by the television programming schedule items 14 and the ALARM BUTTON 34 which uses to set an audible or visual alarm indicating the start of a user's selected program (col. 5, line 46 to

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col. 7, line 28). However, Nelson explicitly does not disclose the claimed wherein the microcontroller is further configured to retrieve from the memory voice data corresponds to the selected portion of the program guide displayed on the display screen, convert the voice data to voice messages and announce the voice messages through the speaker.

Goldstein teaches that wherein it is disclosed that video menus for display on the TV receiver may be transferred as embedded data on the telephone interface 25, which includes an audio message which is broadcast over the internal speaker 39 of the remote control device (col. 8, lines 15-33).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate an audio messages which is broadcast over the internal speaker 39 of the remote control device as taught by Goldstein into Nelson's system in order to provide for a universal programmable remote control device which may be used by a consumer for controlling a variety of consumer products.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson (US Patent No. 5,710,605) in view of Goldstein (US Patent No. 5,410,326), and further in view of Tsai (US Patent No. 5,161,012).

Considering claim 4, the combination of Nelson and Goldstein discusses details of a remote control device with an interactive display but does not particularly disclose that the information is transmitted at a frequency of about 900 MHz. Nevertheless, Tsai introduces a remote control which utilizes a frequency between 902-928 MHz for audio and video transmission, (Abstract; col. 2, lines 2138). It would have been obvious to one

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of ordinary skill in the art at the time the invention was made to modify the combination of Nelson and Goldstein with the disclosure of Tsai for the well known benefit of reliable transmission of data to a remote control or handheld communication unit.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Townsend et al. (US Patent No. 6,501,514 B1) disclose receivers for television signals.

Staron (US Patent No. 6,021,185) discloses method and apparatus for processing and displaying videotext or telephone data.

Grewe et al. (US Patent No. 5,625,608) disclose remote control device capable of downloading content information from an audio system.

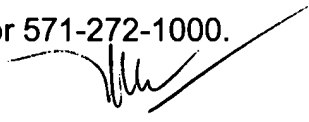
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TT  
July 5, 2006



Trang U. Tran  
Examiner  
Art Unit 2622